

## PATENT ABSTRACTS OF JAPAN

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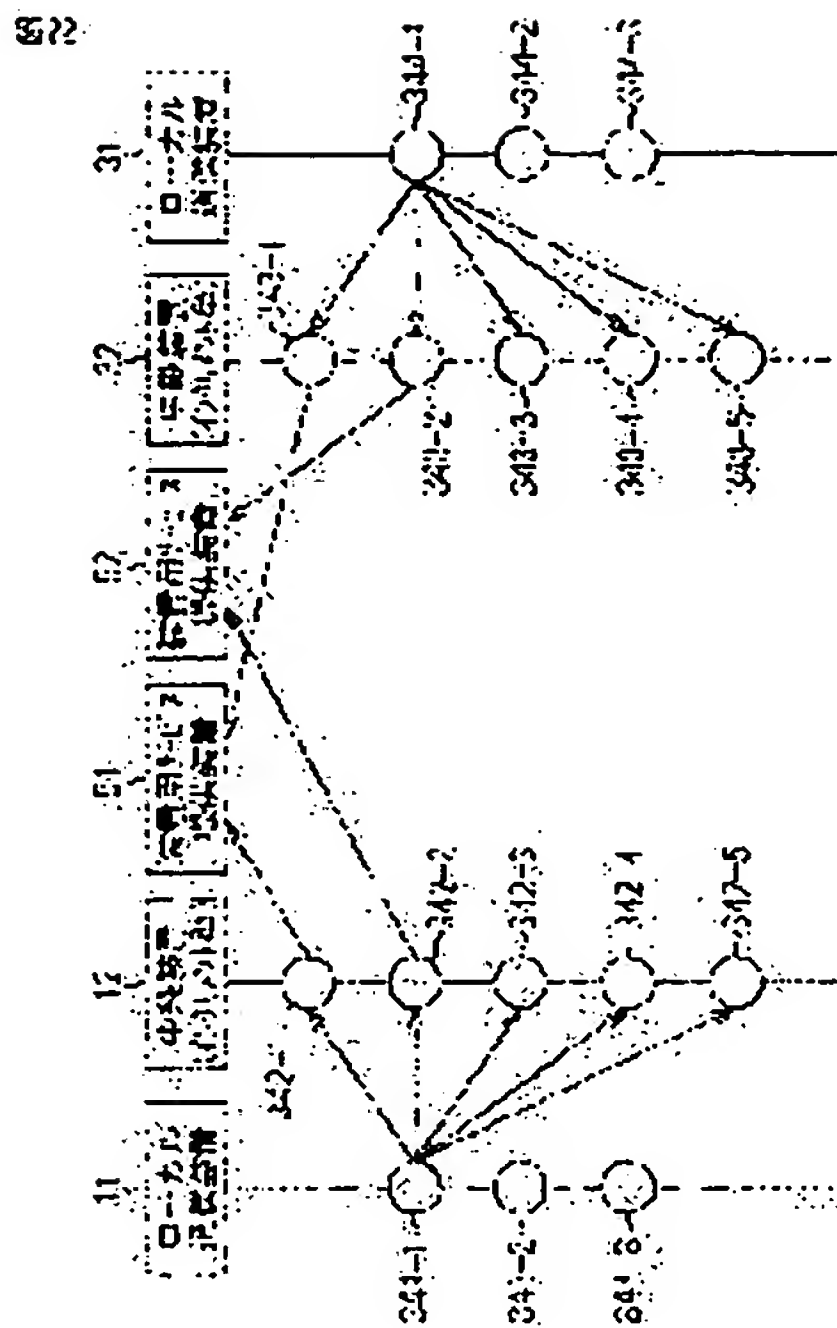
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(54) NETWORK SYSTEM AND COMMUNICATION METHOD,  
INFORMATION PROCESSING APPARATUS AND METHOD, AND  
PROGRAM



(57)Abstract:

PROBLEM TO BE SOLVED: To easily communicate with another apparatus via an NAPT.

SOLUTION: A local communication apparatus 11 supplies a service request packet to a service providing apparatus 51 for apparatus at first, and acquires a

service providing packet via the port 342-1 of a relay apparatus 12. Next, the apparatus 11 supplies a service request packet to a service providing apparatus 52 for apparatus, and acquires a service providing packet via a port 342-2 of the relay apparatus 12. The apparatus 11 calculates a differential value of information of two global addresses included in these service providing apparatuses, adds a value "1" to the port number of the port 342-2 used for communication with the apparatus 52, and forecasts that the port 342-3 is a port corresponding to next communication. This system is applicable to an instant message service system.

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